

Amendment Under 37 C.F.R. § 1.111
Serial No. 09/974,966
Sughrue Ref: Q66516

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

The claims are amended as follows:

Claim 1 (currently amended). A rear projection television comprising:

a casing having a projection screen, said projection screen constituting a front face of said casing;

a projector provided within said casing for emitting a light beam containing an image information; and

an end side final stage reflection mirror provided within said casing in the vicinity of an end portion of said projection screen,

wherein said end side final stage reflection mirror reflects for reflecting said light beam emitted from said projector toward a whole rear surface of said screen ~~as an incident light beam,~~
and

said end side final stage reflection mirror ~~being~~is arranged such that an optical axis of said ~~incident~~ light beam incident on said end side reflection mirror is slanted toward said screen to gradually reduce a distance between said optical axis and said screen,

wherein an angle between a surface of said end side reflection mirror and said surface of said screen is in a range from 70 degrees to 120 degrees.

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Claim 2 (original). A rear projection television as claimed in claim 1, further comprising a focusing optical part provided between said end side reflection mirror and said projector, said focusing optical part being composed of a plurality of focusing mirrors for enlarging and projecting the image information.

Claim 3 (original). A rear projection television as claimed in claim 1, further comprising a rear side reflection mirror provided within said casing on a rear side thereof, said rear side reflection mirror being adapted to reflect the light beam emitted by said projector to produce the incident light beam.

Claim 4 (canceled).

Claim 5 (currently amended). A rear projection television as claimed in claim 1, wherein an angle of an optical axis of an incident light beam incident from a center of said end side reflection mirror onto a center of said screen ~~and with respect to~~ a normal line of said center of said screen is 45 degrees or more.

Claim 6. (currently amended). A rear projection television comprising:
a casing having a projection screen, said projection screen constituting a front face of said
casing;

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a projector provided within said casing for emitting a light beam containing an image information; and

an end side final stage reflection mirror provided within said casing in the vicinity of an end portion of said projection screen,

wherein said end side final stage reflection mirror reflects said light beam emitted from said projector toward a whole rear surface of said screen, and

said end side final stage reflection mirror is arranged such that an optical axis of said light beam incident on said end side reflection mirror is slanted toward said screen to gradually reduce a distance between said optical axis and said screen—A rear projection television as claimed in claim 1,

wherein a normal line of said end side reflection mirror is in parallel to a surface of said screen.

Claim 7 (currently amended) ~~A rear projection television as claimed in claim 1,~~ A rear projection television comprising:

a casing having a projection screen, said projection screen constituting a front face of said casing;

a projector provided within said casing for emitting a light beam containing an image information; and

an end side final stage reflection mirror provided within said casing in the vicinity of an end portion of said projection screen,

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wherein said end side final stage reflection mirror reflects said light beam emitted from said projector toward a whole rear surface of said screen, and

said end side final stage reflection mirror is arranged such that an optical axis of said light beam incident on said end side reflection mirror is slanted toward said screen to gradually reduce a distance between said optical axis and said screen,

wherein a depth size of said casing is one fifth a diagonal size of said screen or smaller.

Claim 8 (original). A rear projection television as claimed in claim 1, wherein said screen has a construction including a full reflection type Fresnel lens and a lenticular lens laminated on said Fresnel lens.

Claim 9 (original). A rear projection television as claimed in claim 8, wherein an optical axis of said Fresnel lens is separated from a center of said screen.

Claim 10 (original). A rear projection television as claimed in claim 9, wherein said optical axis of said Fresnel lens is outside of said screen.

Claim 11 (original). A rear projection television as claimed in claim 2, wherein said focusing optical part is constructed with a first mirror for reflecting a light emitted from an image element forming the image information, a second mirror for reflecting the light reflected by said

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first mirror, a third mirror for reflecting the light reflected by said second mirror and a fourth mirror for reflecting the light reflected by said third mirror.

Claim 12 (original). A rear projection television as claimed in claim 11, wherein said first, second, third and fourth mirrors are arranged such that the light reflected by said fourth mirror becomes the incident light beam on said end side flat mirror.

Claim 13 (original). A rear projection television as claimed in claim 1, further comprising a group of micro reflection mirrors for representing an image by reflecting an illumination light beam emitted from said light source to arbitrary directions.

Claim 14 (currently amended). A projecting method of a rear projection television, comprising the steps of:

expanding and projecting an image on an image display element by a focusing optical part; and

combining and arranging said focusing optical part and a plurality of reflection mirrors such that ~~an incident~~ a light beam, which is incident on a final stage reflection mirror of said reflection mirrors, ~~to be focused on a projection screen~~ is slanted toward said screen to gradually reduce a distance between said incident light beam and said screen, wherein said light beam is focused on a projection screen.

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wherein an incident angle of the light beam projected on said screen is 45 degrees or more.

Claim 15 (canceled).

Claim 16 (original). A projecting method of a rear projection television, as claimed in claim 14, wherein a center of the focused image is different from an optical axis of said focusing optical part.

Claim 17 (currently amended). A projecting method of a rear projection television, as claimed in claim 14, wherein ~~said rear projection television includes~~ said final stage projection mirror is an optical path folding mirror provided on an upper or bottom side of a casing of said rear projection television.

Claim 18 (currently amended). A projecting method of a rear projection television, as claimed in claim 14, wherein ~~an optical axis of a~~ the light beam is reflected by a reflection mirror immediately preceding said final stage reflection mirror ~~is slanted toward said screen to gradually reduce a distance between said optical axis and said screen.~~

Claim 19 (original). A projecting method of a rear projection television, as claimed in claim 14, wherein said focusing optical part is constructed with a plurality of mirrors.

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